

# JMPS version 2.0

## *Naval User Requirements Capture Process*





# Scope of Effort...

## C3

- Early Warning
- Air Control
- Surface Control
- Communications Management
- Take Charge and Move Out (TACAMO)

## COUNTER AIR

- Offensive Counter Air
- Defensive Counter Air

## INTERDICTION

- Close Air Support (CAS)
- Forward Air Control (FAC)
- Strike Coordination and Reconnaissance (SCAR)
- Surface Warfare
- Maritime Air Support
- Suppression of Enemy Air Defenses (SEAD)
- Deep Air Strike (DAS)

## SAR/CSAR

- Search and Rescue
- Combat Search and Rescue

## AERIAL REFUELING

## EXPEDITIONARY OPS

- Assault Support
- Offensive Air Support
- Control of Aircraft and Missiles
- Electronic Warfare
- Reconnaissance and UAVs
- Anti-Air Warfare

## ELECTRONIC WARFARE

- Information Warfare
- Electronic Warfare
- Electronic Attack
- Electronic Protection
- Electronic Surveillance

## AIR/SEA/LAND DELIVERY

- Airdrop
- Air-Landed Passengers
- Air Movement
- Air Supply (VERTREP/VOD)
- Medical Evacuation (MEDEVAC)

## RECONNAISSANCE

- Tactical Air (TACAIR)
- Tactical Air Reconnaissance Pod (TARPS)
- Advanced Tactical Airborne Reconnaissance System (ATARS)
- Shared Reconnaissance Pod (SHARP)

## TRAINING

- Training (TRACOM level Helo/ Prop/ Jet)

## MARITIME

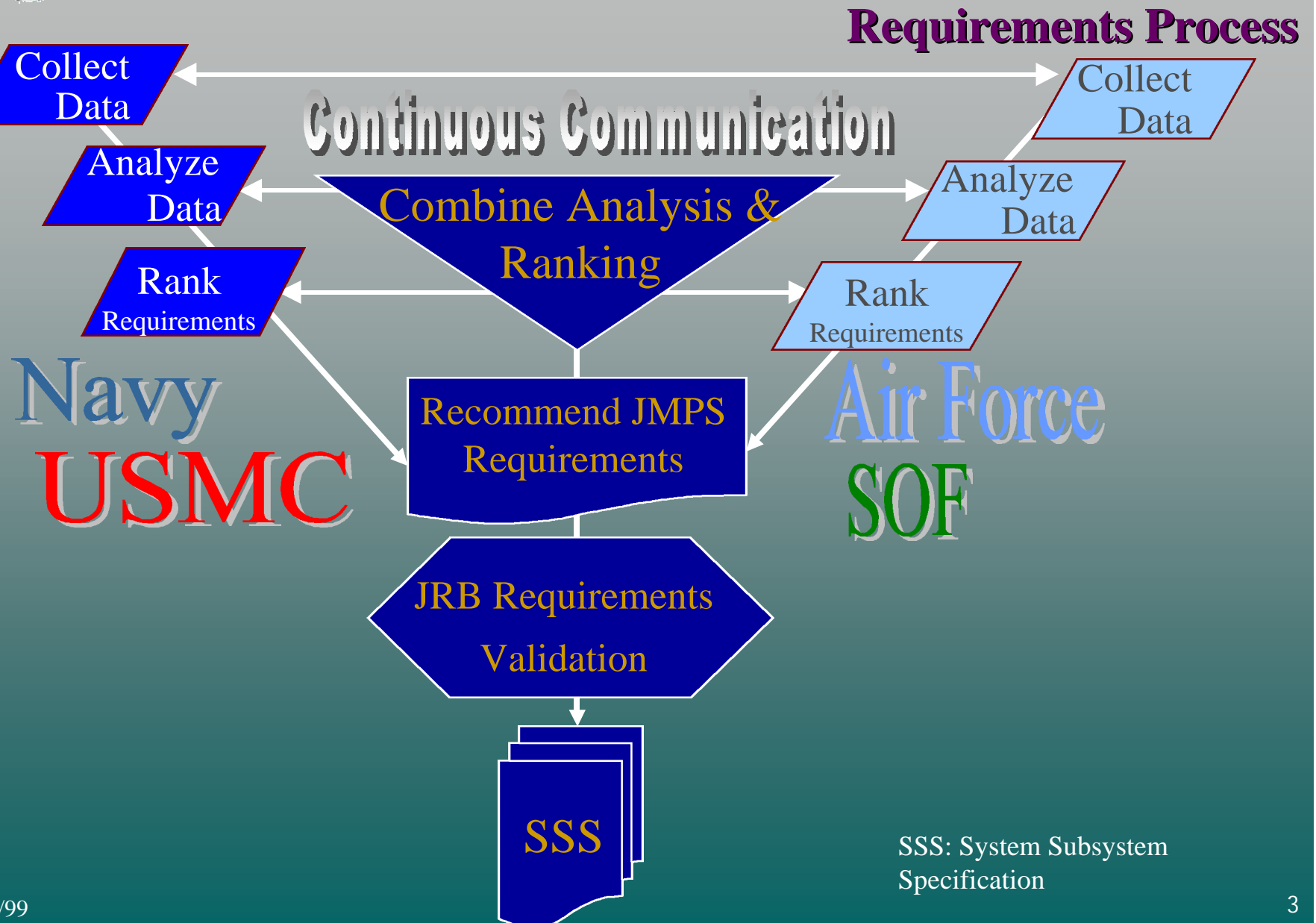
- Under Sea Warfare (USW)
- Surface Warfare (SUW)
- Mine Warfare (MIW)
- Mine Counter Measures (MCM)

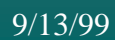
## SPECIAL OPERATIONS

- Maritime Special Operations
- Direct Action
- Special Reconnaissance
- Foreign Internal Defense
- Unconventional Warfare
- Combating Terrorism
- Coalition Support
- Combat Search and Rescue
- Counter Drug Activities
- Humanitarian Assistance
- Security Assistance



# Overall Requirements Process







# JMPS v2 Naval User Requirements Capture Process

- **Five major steps to completion:**
  - Research and Analysis
  - Decomposition of Combat Mission Planning Tasks
  - User Requirement Statements Generation
  - Fleet Verification
  - Requirements Validation



Research  
and  
Analysis

Task  
Decomposition

User  
Requirement  
Statement  
Generation

Fleet  
Verification

Requirement  
Validation

- Documentation is collected for Warfare Area\*
  - CONOPS, Fleet messages, after action reports, design analyses, etc...
  - Initial WAG meetings held
- Docs are imported into DOORS\*
- Docs are analyzed for mission planning related requirements
- Pertinent entries are marked as requirements
- Links from requirement to source doc are automatically established

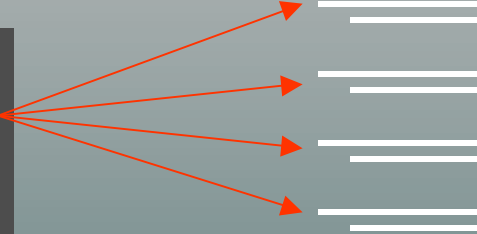


# Naval User Requirements Capture Process

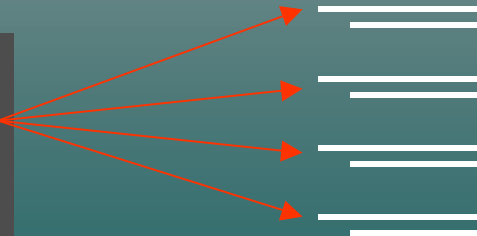
Source  
Documentation

Extracted User  
Need Statements

CONOPS

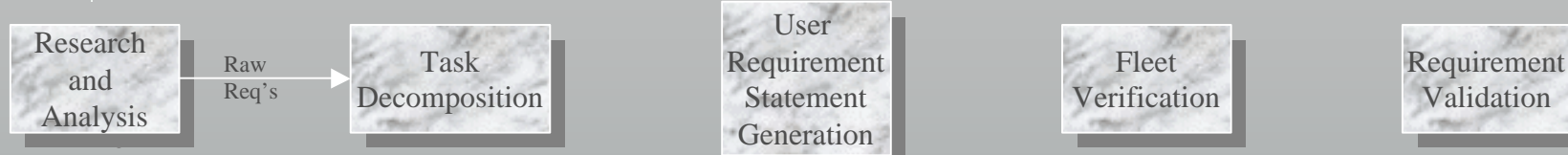


FLEET  
MSG



Links to Source Docs  
maintained in DOORS





- Marked requirements are “mapped” into a generic task decomposition diagram (TDD)
  - generic TDD is based on the CONOPS v2 Main Body...
- Gaps in current CONOPS are graphically identified
- Descriptive notes are entered for each task block of the TDD





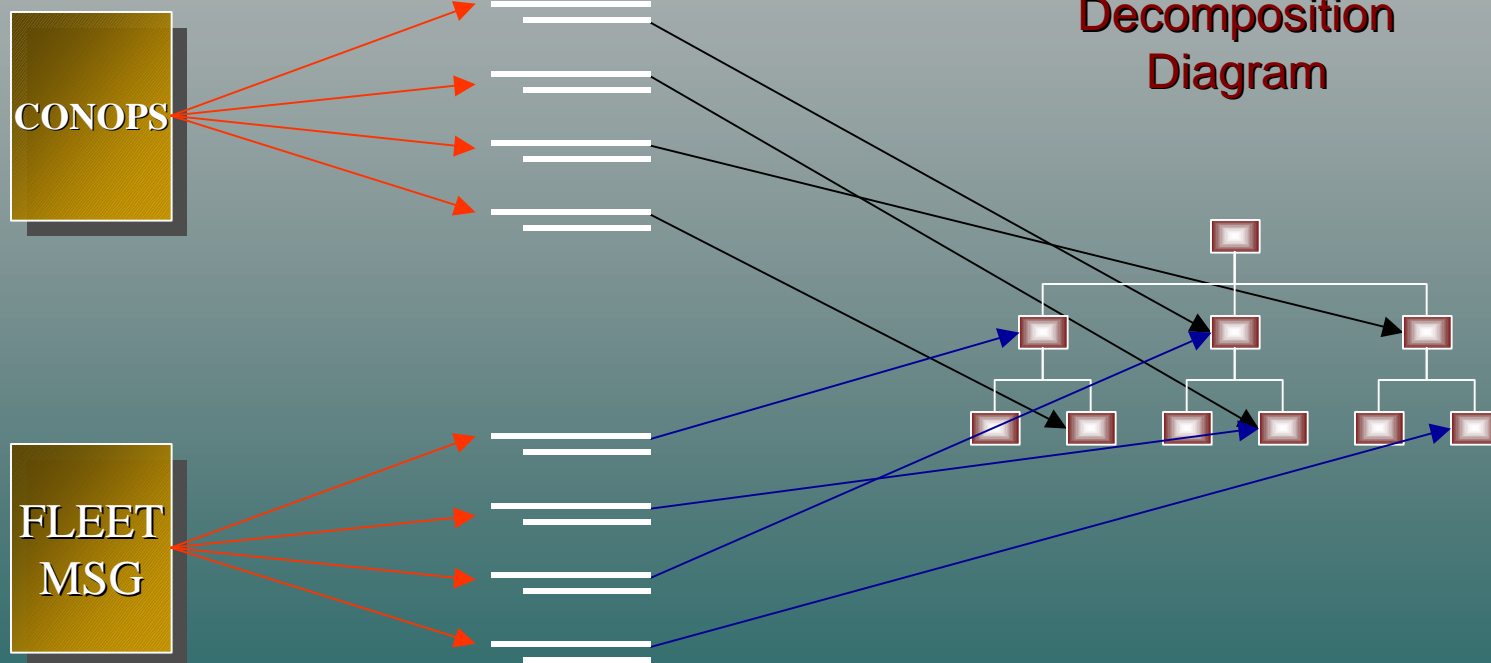
# Naval User Requirements

## Capture Process (cont)

Source  
Documentation

Extracted User  
Need Statements

Task  
Decomposition  
Diagram



Links to Source Docs  
maintained in DOORS

Need Statements are grouped  
by common task...



- Task statements from the TDD are imported into the DOORS database as informal User Requirements
  - hundreds of entries from diverse sources are now organized by common task
- Entries are then formatted as formal User Requirement Statements
- Links back to original source docs are maintained

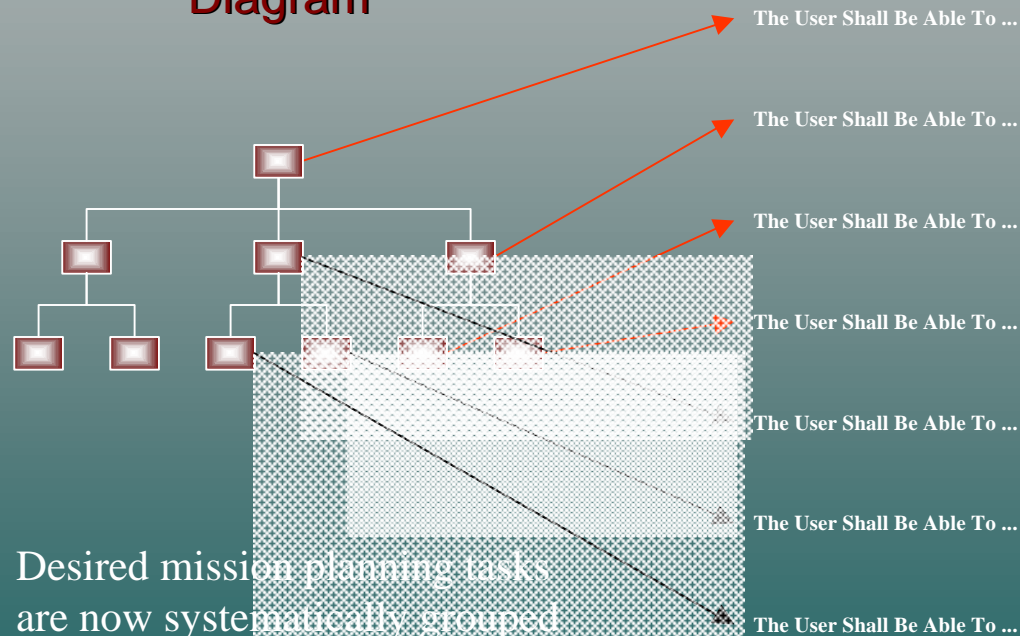


# Naval User Requirements

## Capture Process (cont)

Generated  
Formal User  
Requirement  
Statements

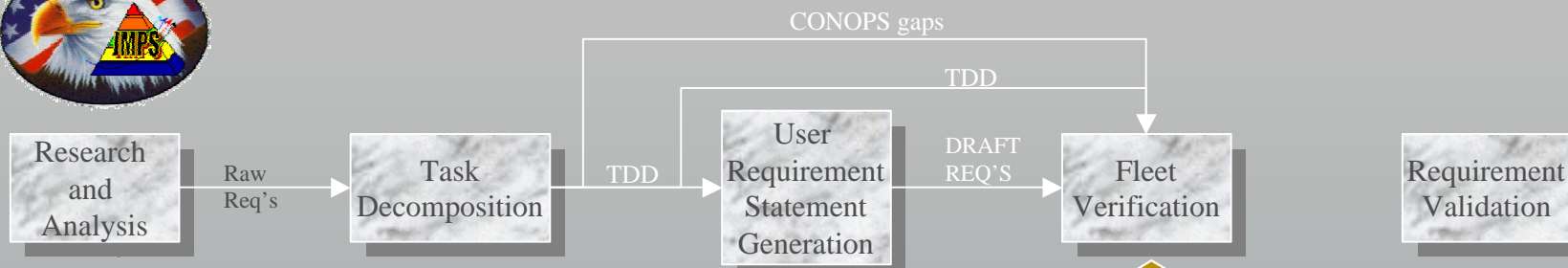
**Task  
Decomposition  
Diagram**



WAURG

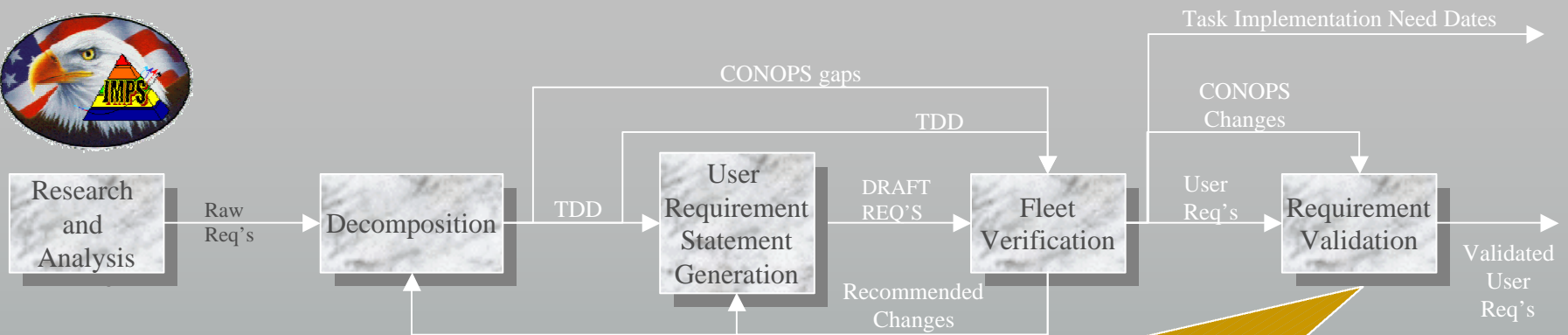
Desired mission planning tasks  
are now systematically grouped  
by common tasks...

Links back to source docs are  
maintained throughout the process



- Conduct the Warfare Area User Requirements Group (WAURG) conference
  - Composed of members from Fleet, PMAs, Centers of Excellence, School Commands, Testing, System Engineering, Risk and Q/A
- WAURG will:
  - review the TDD & the draft User Requirement Statements (with source links) and make change recommendations
  - author CONOPS updates as needed
  - recommend a categorized set of User Requirement Statements
- Changes will be incorporated to the TDD, CONOPS and URdb





### Sponsors will:

- Review the set of WAURG verified User Requirement Statements and the WAURG's recommended categorization
- Perform a ranking of requirements based on guidance and budget
- Present User Requirement Statements to the JRB as a series of "Statements of Operational Intent" (SOIs)
- Review recommended changes to the CONOPS



# What's Been Done So Far?

- Built a "first cut" TDD
- Gathered 21 source docs of varying utility
- Analyzed and mapped what we think are valid Maritime user needs to the TDD
- Built a requirements database
- Established links between the source docs and the task statements
- Reached a point where we need to get the experts to verify our work and add validity to the model and the products





# Our Expectations of You

- Break into working groups by community
  - Elect a spokesman for your community
- Check our work and identifying missing requirements and source documents
- Provide “Stamp of Approval” (validate) to the products for presentation to PMA-233
- Identify common mission planning tasks as a Maritime Warfare group
- Agree to a set of rules and categorize your user requirements
- Give us an assessment of this prototype effort